The Michigan ENHANCE 9-1-1 Grant Project Update

GIS Technical Advisory Committee

Lansing, MI

December 1, 2011

ENHANCE 911 Act Grant

- History
- Background
  - Act in place in 2004
  - Funds authorized, but not appropriated until 2009
- June 2009 announcement
- June 2009 SNC approval of application
- August 2009 application due
- Sept 2009 award announced of $1,699,999
  - $1,108,704 base
  - $591,295 supplemental

DTMB Technology, Management & Budget

What is the project NOT about?

- ◆ NOT replacing the local 9-1-1 GIS data systems and making the state responsible for all PSAP GIS data

- ◆ NOT for use to create a single statewide CAD or PSAP

- ◆ NOT creating a platform for non-public safety purposes

What Grant Project IS About

- Creating a central 9-1-1 GIS Repository
  - Enabling PSAPs to share GIS information
  - Establishing MOAs
  - Setting standards for GIS data entry
  - Future framework for NG9-1-1 database
- Statewide Public Safety Answering Point (PSAP) Boundary Layer
- Statewide Road Centerline Layer

Formation of the TAC:

◆ Established as a technical advisory committee to the Local and State Cross Boundary Technology Steering Committee

- Local representation from the 9-1-1, IT, and GIS communities to provide first hand knowledge and experience to the 9-1-1 GIS Grant Project

- Will make recommendations on project direction to the Local and State Cross Boundary Technology Steering Committee

Project Organization Overview

- Project Sponsor

   Harriet Miller-Brown – Michigan 9-1-1 State Administrator

- DTMB Project Staff (CSSTP)

   Eric Swanson - CSSTP, Project Sponsor, Director

   Laura Blastic – CSSTP, Project Manager, Geo-Framework Services Manager

   Paul Harmon – CSSTP, Communications Liaison

   John Clark – CSSTP, GIS Solutions Architect

   Mark Holmes - L.R. Kimball

Project Organization Overview

Technical Advisory Committee (TAC)

- 9-1-1
  - Mike Muskovin, Ottawa County
  - Mike Szor, Alpena County
  - Phyllis Fuller, Barry County
  - Harriet Miller-Brown, State 9-1-1 Office
- IT
  - Ron Plamondon, Leelanau County
  - Susan Morre, Oakland County
  - Tom Shewchuk, Ingham County
- GIS
  - Scott Ambs, Jackson County
  - Chris Cantrell, Midland County
  - Nathan Fazer, Eastern UP Planning Region
  - Eric Swanson, CSSTP

Role of the TAC:

◆ Provide local insight and collaboration as project develops

- Project documents (e.g. Charter, MOA's)
- Develop technical standards
- Develop communication and outreach plan
- Initial data assessments
- Determine sub-grant recipients
- Serve as the voice of the local units of government who will be the end users of the system

Project Tasks Overview

- Initial Assessment and Data Development Plan
- Community Outreach
- Statewide 9-1-1 Database Design
- Develop and Implement Database and Application Architecture
- Develop Statewide PSAP Boundary Layer
- Develop Complete Statewide GIS Road Centerline and an Initial Point Address Layers
- Maintenance Plan and Workflows Implementation

System Architecture

- ◆ GIS Repository
  - ▪ Data Standards
    - ➢ Road Centerlines and PSAP Boundaries – Mandatory
    - ➢ Address Points and Emergency Service Zones
    - ➢ 9-1-1 GIS Data Standards for GIS Repository
      - • Incorporates current 9-1-1 standards
      - • Includes NG9-1-1 data standards for future implementation

    - ➢ Public Comment Period
      - • Began September 30, 2011 Ended October 14, 2011
      - • Document available at:
        - – www.michigan.gov/911gisgrant
        - – www.michigan.gov/snc
    - ➢ Final Standards are Posted

System Architecture

- ◆ User Interfaces Into System
  - ▪ ETL Processes
    - ➢ Translation scripts
    - ➢ Projections
    - ➢ Field mapping
  - ▪ Interactive Map
    - ➢ Red lining of edits to road, PSAP boundaries
    - ➢ Data update approval processes

  - ▪ Quality Control Tools and Reports
  - ▪ Import and Export Utilities

Data Interoperability
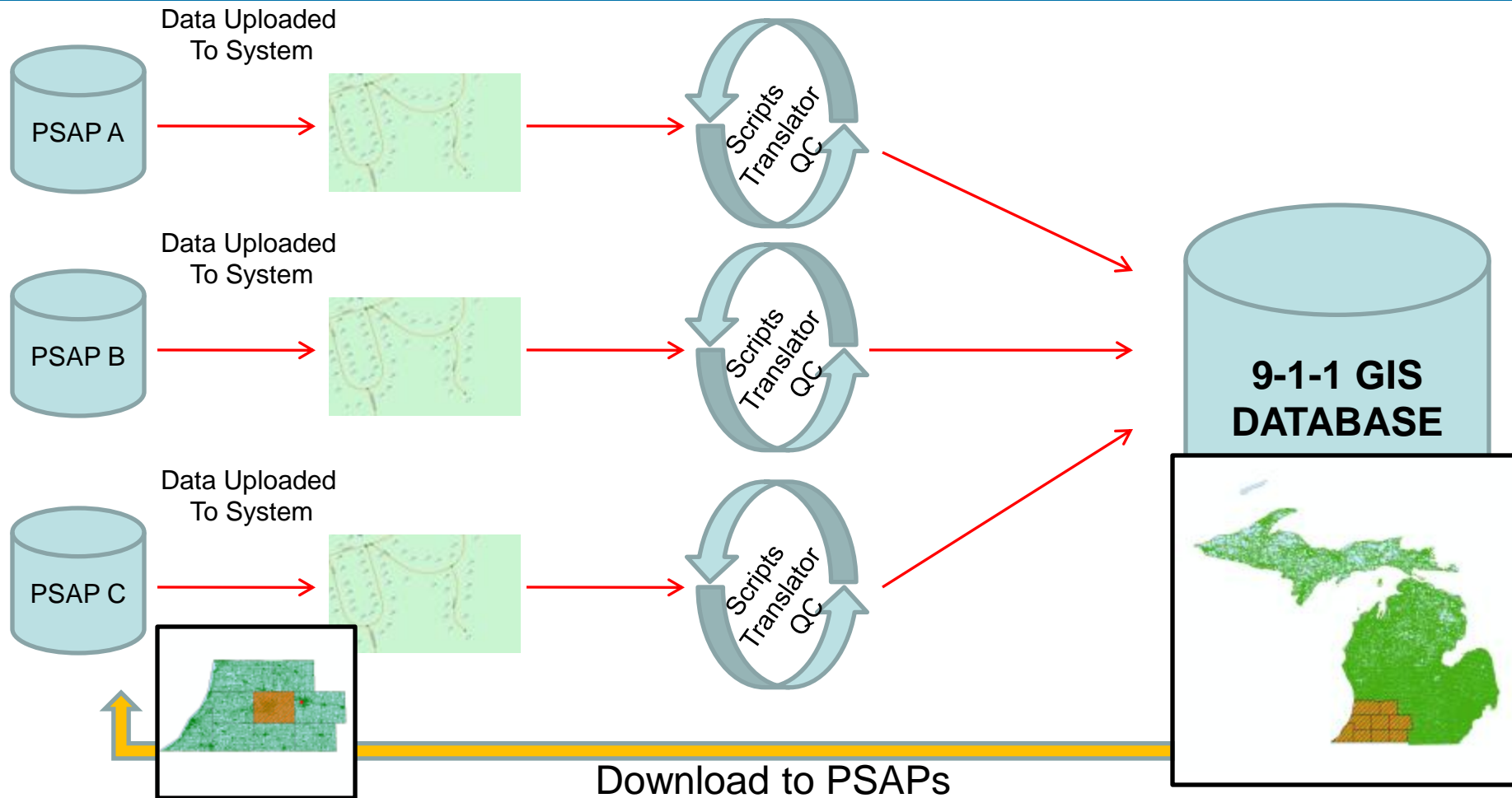
Data Sharing and Agreements

- Enhanced Access to Public Records Act
  - DTMB Policy Developed Specific to Project
    - Local Participant Will Need a Local Enhance Access to Public Records Act Policy
    - Project Will Provide Examples of Enhance Access to Public Records Act Policies – If Local Participant Does Not Have One in Place
  - Memorandum of Agreement Between CSSTP and Each Participating Entity
    - Outlines Roles and Responsibilities of CSSTP and Participants
    - Established Disclaimers for Data Sharing
    - Signed Agreement

Current Activity

- Participating Counties/PSAPs for Pilot
  - Alpena, Jackson, Leelanau, Barry, Midland, and Allegan Counties
- Steps to Participation
  - Sign Letter of Interest to Participate
  - Sign Memorandum of Agreements Between Participant and CSSTP
  - Implement Local Enhance Access to Public Records Act Policy
  - Provide Data to CSSTP for Data Assessment
- Talk to your GIS department
  - Discuss Participation
  - Make inquiries to the TAC members if you have questions
- Groups supporting the project: Michigan APCO, MCDA, MiCAMP, IMAGIN

Local Sub-grant Program

Sub-grant program timeline

Grant Application Period Opens	November 1, 2011
Grant Informational Webinar	November 8, 2011 – 10:00AM
Letter of Interest Submission Deadline	November 18, 2011
Memorandum of Agreement Submission Deadline	December 1, 2011
GIS Data Submission Deadline for Assessment	December 1, 2011
Grant Application Period Closes	January 3, 2012
Grant Award Notices	February 1, 2012
Mid-term datasets and financial reports submission	April 1, 2012*
Final Datasets and financial reports submission	June 30, 2012 **
Grant Project Completion	June 30, 2012

Sub-grant program information

- www.michigan.gov/911gisgrant

- Grant application packet

  - Introductory Letter

  - Letter of Interest form

  - Grant Guidelines

  - Grant Application Form

  - Memorandum of Agreement (MOA) Template

Sub-grant program information

- Frequently Asked Questions (FAQ) document
- Additional contact information listed on grant guidelines document
- TAC members are available for questions
- Database standards
  - Final standards document
  - Geodatabase model templates

Sub-grant payment schedule

April 15, 2012	50% of Grant Total Awarded to Grantee *
July 15, 2012	50% of Grant Total Awarded to Grantee **

- *The mid-term grant payment will be dependent on showing progress of grant objectives. Mid-term datasets submitted by the April 1, 2012 due date will be reviewed for increased accuracy levels toward the baseline.

- **The final grant payment will be dependent on final assessment of the datasets to determine if grantee met the objectives described in the grant application and have met the necessary accuracy levels.

Eligible Uses of Sub-grant funds

- Improvement of road centerline completeness and accuracy tied to the requirements of the ENHANCE 911 Act grant.

- Sub-grants will be prioritized based on the ENHANCE 911 Act grant project requirements for road centerlines

- Eligible uses of funds include:
  - Improving spatial accuracy of roads
    - adhering to standards of +/- 10 feet from center of roadway
    - Topology – roads that are not connected or intersected

Eligible Uses of Sub-grant funds

- Eligible uses of funds include (continued):
  - Improving attribute completeness and accuracy of required fields

Field Description	Example
Prefix Street Direction	N, E, S, W, NE, NW, SE, SW
Street Name	MAIN, CENTER, ELMWOOD, THIRD
Street Type	ST, AVE, RD
Suffix Street Direction	N, E, S, W, NE, NW, SE, SW
Left From Address	101
Left To Address	149
Right From Address	100
Right To Address	148
MSAG Community Left	GREEN TWP
MSAG Community Right	GREEN TWP
ESN Left	103
ESN Right	103

Eligible Uses of Sub-grant funds

- Eligible uses of funds include (continued):
  - Field verification of addressing information
  - Staffing costs to perform the road centerline improvements. Staffing costs will only be funded for work specific to the grant project and outlined in the grantee's application.
  - Vendor costs to improve the data accuracy requirements of the road centerlines
  - All expenses must be reasonable and necessary and comply with the allowable uses criteria as established by the State 9-1-1 Committee's Allowable and Disallowable Expenses list. (http://www.michigan.gov/documents/ListingofAllowable_14259_7.pdf)

Requirements for eligibility

- To be eligible for any available grants, the applicants will be required to have:
    - submitted a letter of interest to participate in the Michigan ENHANCE 911 Act GIS grant project
    - executed data sharing Memorandum of Agreement
    - provided a copy of the required datasets for initial baseline review
        - GIS road centerlines and MSAG table (minimum requirement)
    - Provided a copy of datasets, if available
        - GIS address points
        - GIS Emergency Services Zone boundaries

Data Assessment Process

- ◆ Requirement of the ENHANCE 911 Act grant project and participating in the sub-grant program is for participants to provide initial datasets for baseline review

- ◆ Basic assessment of the data is performed
  - ➤ Not a detailed record by record visual review
  - ➤ Check standardization of databases
  - ➤ Automated attribute checks
  - ➤ Visual spatial accuracy review
  - ➤ Topology sampling
  - ➤ Geocoding check of address points (if available)

Data Assessment Scorecard

- Template scorecard will be available on project web page by Nov. 8th.

- Applicants that wish to review assessment results will receive the baseline assessment report within 2 weeks of submitting data

- If possible, submit by Dec. 1, 2011 along with signed MOA

- Submit sooner if you can, then you will receive the results sooner to potentially incorporate into your grant application

Initial FAQ

- Do I have to participate in the 9-1-1 GIS grant project if I receive a sub-grant?
  - YES

- Can I still participate in the 9-1-1 GIS grant project if I do not apply for a sub-grant
  - YES

More Information

- www.michigan.gov/911GISGrant

- www.michigan.gov/snc

- Harriet Miller-Brown
  - MillerHR@michigan.gov
  - 517-241-0080

- Laura Blastic
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  - 517-373-7910

Questions

Open Discussion